



1600

RAW SEQUENCE LISTING
PATENT APPLICATION: US/10/083,815A

DATE: 08/12/2002
TIME: 14:07:23

Input Set : A:\435c2.app
Output Set: N:\CRF3\08122002\J083815A.raw

ENTERED

5 <110> APPLICANT: Anderson, Christen M.
6 Clevenger, William
9 <120> TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR REGULATING
10 ENDOGENOUS INHIBITOR OF ATP SYNTHASE, INCLUDING
11 TREATMENT FOR DIABETES
14 <130> FILE REFERENCE: 660088.435C2
C--> 17 <140> CURRENT APPLICATION NUMBER: US/10/083,815A
18 <141> CURRENT FILING DATE: 2002-02-27
20 <160> NUMBER OF SEQ ID NOS: 73
22 <170> SOFTWARE: FastSEQ for Windows Version 4.0
24 <210> SEQ ID NO: 1
25 <211> LENGTH: 6
26 <212> TYPE: PRT
27 <213> ORGANISM: Artificial Sequence
29 <220> FEATURE:
30 <223> OTHER INFORMATION: Epitope tag
32 <400> SEQUENCE: 1
33 His His His His His His
34 1 5
36 <210> SEQ ID NO: 2
37 <211> LENGTH: 7
38 <212> TYPE: PRT
39 <213> ORGANISM: Artificial Sequence
41 <220> FEATURE:
42 <223> OTHER INFORMATION: Epitope tag
44 <400> SEQUENCE: 2
45 Asp Tyr Asp Asp Asp Asp Lys
46 1 5
48 <210> SEQ ID NO: 3
49 <211> LENGTH: 6
50 <212> TYPE: PRT
51 <213> ORGANISM: Artificial Sequence
53 <220> FEATURE:
54 <223> OTHER INFORMATION: Epitope tag
56 <400> SEQUENCE: 3
57 Asp Thr Tyr Arg Tyr Ile
58 1 5
60 <210> SEQ ID NO: 4
61 <211> LENGTH: 6
62 <212> TYPE: PRT
63 <213> ORGANISM: Artificial Sequence
65 <220> FEATURE:
66 <223> OTHER INFORMATION: Epitope tag

RAW SEQUENCE LISTING

DATE: 08/12/2002

PATENT APPLICATION: US/10/083,815A

TIME: 14:07:23

Input Set : A:\435c2.app

Output Set: N:\CRF3\08122002\J083815A.raw

68 <400> SEQUENCE: 4
69 Thr Asp Phe Tyr Leu Lys
70 1 5
72 <210> SEQ ID NO: 5
73 <211> LENGTH: 10
74 <212> TYPE: PRT
75 <213> ORGANISM: Artificial Sequence
77 <220> FEATURE:
78 <223> OTHER INFORMATION: Epitope tag
80 <400> SEQUENCE: 5
81 Glu Gln Lys Leu Ile Ser Glu Glu Asp Leu
82 1 5 10
84 <210> SEQ ID NO: 6
85 <211> LENGTH: 9
86 <212> TYPE: PRT
87 <213> ORGANISM: Artificial Sequence
89 <220> FEATURE:
90 <223> OTHER INFORMATION: Epitope tag
92 <400> SEQUENCE: 6
93 Glu Glu Glu Glu Tyr Met Pro Met Glu
94 1 5
96 <210> SEQ ID NO: 7
97 <211> LENGTH: 9
98 <212> TYPE: PRT
99 <213> ORGANISM: Artificial Sequence
101 <220> FEATURE:
102 <223> OTHER INFORMATION: Epitope tag
104 <400> SEQUENCE: 7
105 Tyr Pro Tyr Asp Val Pro Asp Tyr Ala
106 1 5
108 <210> SEQ ID NO: 8
109 <211> LENGTH: 5
110 <212> TYPE: PRT
111 <213> ORGANISM: Artificial Sequence
113 <220> FEATURE:
114 <223> OTHER INFORMATION: Epitope tag
116 <400> SEQUENCE: 8
117 Arg Tyr Ile Arg Ser
118 1 5
120 <210> SEQ ID NO: 9
121 <211> LENGTH: 6
122 <212> TYPE: PRT
123 <213> ORGANISM: Artificial Sequence
125 <220> FEATURE:
126 <223> OTHER INFORMATION: Epitope tag
128 <400> SEQUENCE: 9
129 Pro Pro Glu Pro Glu Thr
130 1 5
132 <210> SEQ ID NO: 10

RAW SEQUENCE LISTING

DATE: 08/12/2002

PATENT APPLICATION: US/10/083,815A

TIME: 14:07:23

Input Set : A:\435c2.app

Output Set: N:\CRF3\08122002\J083815A.raw

```

133 <211> LENGTH: 8
134 <212> TYPE: PRT
135 <213> ORGANISM: Artificial Sequence
137 <220> FEATURE:
138 <223> OTHER INFORMATION: cellular transport sequence
140 <400> SEQUENCE: 10
141 Arg Lys Lys Arg Arg Gln Arg Arg
142 1 5
144 <210> SEQ ID NO: 11
145 <211> LENGTH: 21
146 <212> TYPE: DNA
147 <213> ORGANISM: Artificial Sequence
149 <220> FEATURE:
150 <223> OTHER INFORMATION: cellular transport sequence
152 <400> SEQUENCE: 11
153 aggaagaagc ggagacagag a
155 <210> SEQ ID NO: 12
156 <211> LENGTH: 324
157 <212> TYPE: DNA
158 <213> ORGANISM: Rattus norvegicus
160 <400> SEQUENCE: 12
161 atggcaggct cggcggtggc ggttcgggct cggctcgggtg tctgggggtat gaggggtcctg
162 caaacccgag gcttcggctc ggactcgtcg gagagcatgg attcggggcgc tggctccatc
163 cgagaagctg gtggggcctt cgggaaacga gagaaggctg aagaggatcg gtacttccga
164 gagaagacta gagagcagct ggctgccttg aagaagcacc atgaagatga gattgaccac
165 cattcgaagg agatagagcg tctgcaaaaa cagatcgaac ggcataagaa gaagattaaa
166 tacctaaaga atagtgaagca ttga
168 <210> SEQ ID NO: 13
169 <211> LENGTH: 107
170 <212> TYPE: PRT
171 <213> ORGANISM: Rattus norvegicus
173 <400> SEQUENCE: 13
174 Met Ala Gly Ser Ala Leu Ala Val Arg Ala Arg Leu Gly Val Trp Gly
175 1 5 10 15
176 Met Arg Val Leu Gln Thr Arg Gly Phe Gly Ser Asp Ser Ser Glu Ser
177 20 25 30
178 Met Asp Ser Gly Ala Gly Ser Ile Arg Glu Ala Gly Gly Ala Phe Gly
179 35 40 45
180 Lys Arg Glu Lys Ala Glu Glu Asp Arg Tyr Phe Arg Glu Lys Thr Arg
181 50 55 60
182 Glu Gln Leu Ala Ala Leu Lys Lys His His Glu Asp Glu Ile Asp His
183 65 70 75 80
184 His Ser Lys Glu Ile Glu Arg Leu Gln Lys Gln Ile Glu Arg His Lys
185 85 90 95
186 Lys Lys Ile Lys Tyr Leu Lys Asn Ser Glu His
187 100 105
189 <210> SEQ ID NO: 14
190 <211> LENGTH: 75
191 <212> TYPE: DNA

```

RAW SEQUENCE LISTING

DATE: 08/12/2002

PATENT APPLICATION: US/10/083,815A

TIME: 14:07:23

Input Set.: A:\435c2.app

Output Set: N:\CRF3\08122002\J083815A.raw

```

192 <213> ORGANISM: Rattus norvegicus
194 <400> SEQUENCE: 14
195 atggcaggct cggcggttggc ggttcgggct cggctcgggtg tctgggggtat gagggctcctg      60
196 caaacccgag gcttc                                         75
198 <210> SEQ ID NO: 15
199 <211> LENGTH: 509
200 <212> TYPE: DNA
201 <213> ORGANISM: Mus musculus
203 <400> SEQUENCE: 15
204 cgcaacgcga gctgagcaac gccgaagaca atggcaggct cggcggttggc agttcgggct      60
205 cggttcgggtg tctgggggtat gaaggctcctg caaacccgag gcttcgtctc ggactcgtcg      120
206 gatagcatgg atacgggcgc tggctccatc cgagaagctg gtggagcctt cggaaaacga      180
207 gaaaaggctg aagaggatcg gtacttccga gagaagacta aagaacagct ggctgccctg      240
208 aggaaacacc atgaagatga gattgaccac cattcgaagg agatagagcg tctgcagaag      300
209 caaattgatc gccataagaa gaagatccaa caactaaaga ataatcattg aatgcgcgca      360
210 gtcgggtccct cacagagtgg cccgtatcac tccccacgtc tgtagacaca tggctttgaa      420
211 tgattactat ttggtctgtg tgctactaac agataataaa cgatcaccag gaaactttta      480
212 aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa                                         509
214 <210> SEQ ID NO: 16
215 <211> LENGTH: 106
216 <212> TYPE: PRT
217 <213> ORGANISM: Mus musculus
219 <400> SEQUENCE: 16
220 Met Ala Gly Ser Ala Leu Ala Val Arg Ala Arg Phe Gly Val Trp Gly
221 1          5          10          15
222 Met Lys Val Leu Gln Thr Arg Gly Phe Val Ser Asp Ser Ser Asp Ser
223          20          25          30
224 Met Asp Thr Gly Ala Gly Ser Ile Arg Glu Ala Gly Gly Ala Phe Gly
225          35          40          45
226 Lys Arg Glu Lys Ala Glu Glu Asp Arg Tyr Phe Arg Glu Lys Thr Lys
227          50          55          60
228 Glu Gln Leu Ala Ala Leu Arg Lys His His Glu Asp Glu Ile Asp His
229 65          70          75          80
230 His Ser Lys Glu Ile Glu Arg Leu Gln Lys Gln Ile Asp Arg His Lys
231          85          90          95
232 Lys Lys Ile Gln Gln Leu Lys Asn Asn His
233          100         105
235 <210> SEQ ID NO: 17
236 <211> LENGTH: 23
237 <212> TYPE: DNA
238 <213> ORGANISM: Artificial Sequence
240 <220> FEATURE:
241 <223> OTHER INFORMATION: PCR primer
243 <400> SEQUENCE: 17
244 cacaaagata tcggaaccct cta                                         23
246 <210> SEQ ID NO: 18
247 <211> LENGTH: 25
248 <212> TYPE: DNA
249 <213> ORGANISM: Artificial Sequence

```

RAW SEQUENCE LISTING

DATE: 08/12/2002

PATENT APPLICATION: US/10/083,815A

TIME: 14:07:23

Input Set : A:\435c2.app

Output Set: N:\CRF3\08122002\J083815A.raw

```

251 <220> FEATURE:
252 <223> OTHER INFORMATION: PCR primer
254 <400> SEQUENCE: 18
255 aagtgggctt ttgctcatgt gtcac          25
257 <210> SEQ ID NO: 19
258 <211> LENGTH: 47
259 <212> TYPE: DNA
260 <213> ORGANISM: Artificial Sequence
262 <220> FEATURE:
263 <223> OTHER INFORMATION: PCR primer
265 <400> SEQUENCE: 19
266 tgagctcaga tatggcagga agaagcggag acagagagga atggcag          47
268 <210> SEQ ID NO: 20
269 <211> LENGTH: 34
270 <212> TYPE: DNA
271 <213> ORGANISM: Artificial Sequence
273 <220> FEATURE:
274 <223> OTHER INFORMATION: PCR primer
276 <400> SEQUENCE: 20
277 atataagctt tcaatgctca ctattcttta ggta          34
279 <210> SEQ ID NO: 21
280 <211> LENGTH: 33
281 <212> TYPE: DNA
282 <213> ORGANISM: Artificial Sequence
284 <220> FEATURE:
285 <223> OTHER INFORMATION: Tat-derived cellular targeting sequence
287 <400> SEQUENCE: 21
288 agatatggca ggaagaagcg gagacagaga gga          33
290 <210> SEQ ID NO: 22
291 <211> LENGTH: 11
292 <212> TYPE: PRT
293 <213> ORGANISM: Artificial Sequence
295 <220> FEATURE:
296 <223> OTHER INFORMATION: Tat-derived cellular targeting sequence
298 <400> SEQUENCE: 22
299 Arg Tyr Gly Arg Lys Lys Arg Arg Gln Arg Gly
300 1          5          10
302 <210> SEQ ID NO: 23
303 <211> LENGTH: 48
304 <212> TYPE: DNA
305 <213> ORGANISM: Artificial Sequence
307 <220> FEATURE:
308 <223> OTHER INFORMATION: PCR primer
310 <400> SEQUENCE: 23
311 tgagctcagg atatggcagg aagaagcggg gacagagagg aggctcgg          48
313 <210> SEQ ID NO: 24
314 <211> LENGTH: 34
315 <212> TYPE: DNA
316 <213> ORGANISM: Artificial Sequence

```

VERIFICATION SUMMARY

DATE: 08/12/2002

PATENT APPLICATION: US/10/083,815A

TIME: 14:07:24

Input Set : A:\435c2.app

Output Set: N:\CRF3\08122002\J083815A.raw

L:17 M:270 C: Current Application Number differs, Wrong Format